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**(54) INCINERATED ASH  
PROCESSING DEVICE**

(57) Abstract:

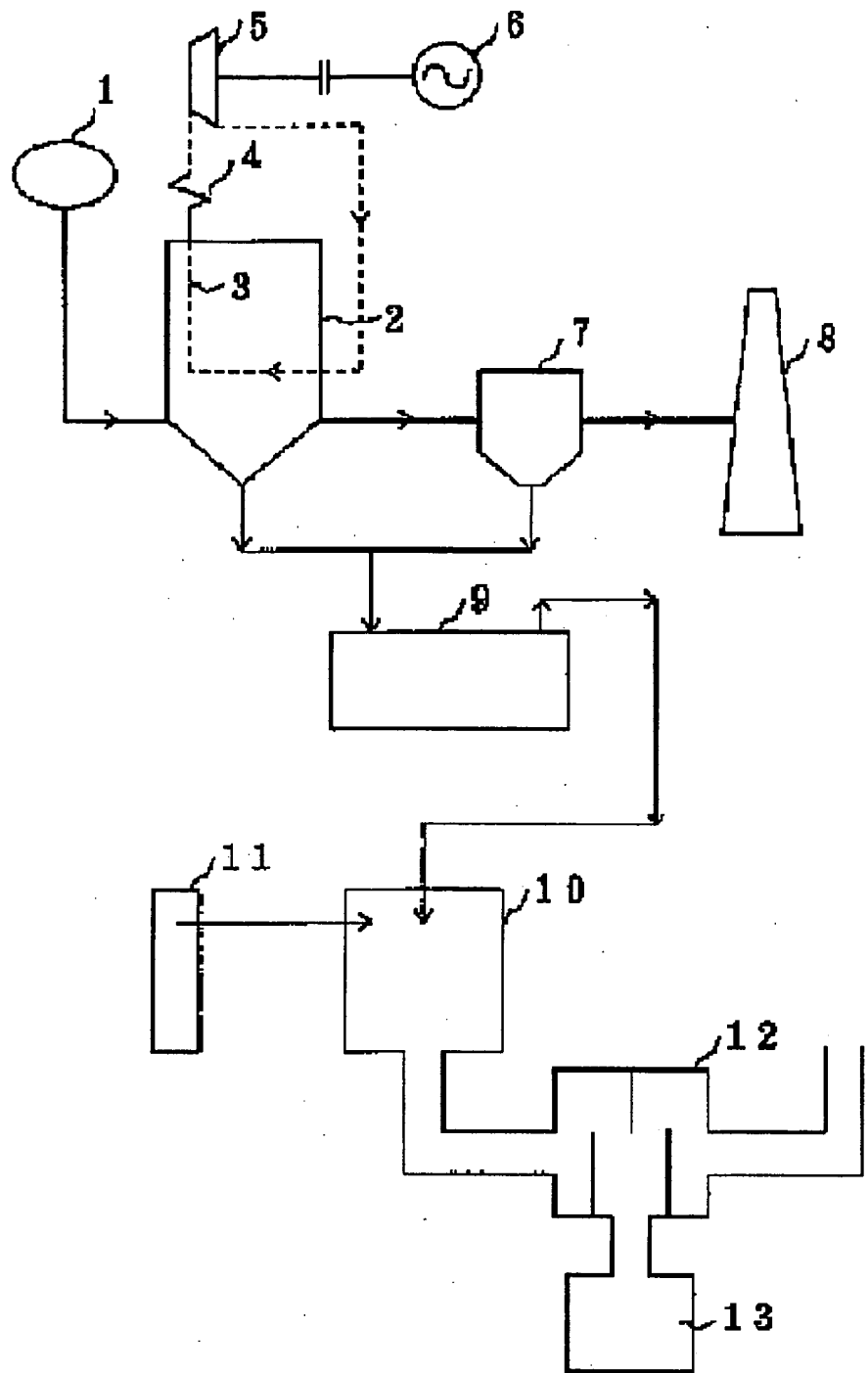
**PROBLEM TO BE SOLVED:** To provide an incinerated ash processing device which makes harmless and reduces the volume of the incinerated ashes emitted from a thermal power electric plant and further collects variable metals.

**SOLUTION:** In an incinerated ash processing device which processes incinerated ashes emitted from a thermal power plant, there are provided an unburnt carbon removal device 9 which processes the incinerated ashes to fine particles and removes an unburnt carbon content, a heat plasma generation device 10 which melts the incinerated ashes whose unburnt carbon content is removed by the unburnt carbon removal device and evaporates, decomposes and reduces metal in the ashes and a heat exchanger 12 which cools and condenses the reduced metal vapor. Due to this construction, the incinerated ashes are decomposed at high temperature with the heat

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plasma and volume-reduced, which makes it possible to reduce the size of processing equipment and eliminate the need for scattering processing equipment and sample variable metal contained in the ashes for its application and turn them for effective application to industrial materials of slug or the like and thereby provide an excellent thermal power plant which is excellent in both waste processing and resource cycle.

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